IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS CERTIFICATE USA/0161/S-96, REVISION 4

East Building, PHH-23 1200 New Jersey Avenue SE Washington, D.C. 20590

Pipeline and Hazardous Materials Safety Administration

This certifies that the sources described have been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive material.

- 1. <u>Source Identification</u> New England Nuclear Models NER-550 and NER-560-A.
- 2. Source Description - The sources described by this certificate are TIG welded doubly encapsulated sources constructed of Type 316L stainless steel. The Model NER-550 has a diameter of 7.0 mm (0.275 in.) to 25.4 mm (1.0 in.), and length 9.53 mm (0.375 in.) to 38.1 mm (1.5 in.). The Model NER-560-A has a diameter of 12.7 mm (0.5 in.), and length 17.15 mm (0.675 in.), with an additional 9.5 mm (0.375 in.) long threaded stud on the welded endcap. Minimum wall thickness of all inner and outer capsules is 0.635 mm (0.025 in.) and minimum plug thickness for each capsule is 1.27 mm (0.05)in.). construction must be in accordance with attached New England Nuclear Corporation Drawing No. 313-26, Rev. A (Model NER-550), or Model NER-560-A (Model NER-560-A).
- 3. Radioactive Contents For the Model NER-550, not more than 37 GBq (1.0 Ci) of Americium-241. For the Model NER-560-A, not more than 2.22 GBq (60 mCi) of Americium-241 and 0.407 GBq (11 mCi) of Cesium-137. The Am-241 is in the form of americium oxide, mixed with beryllium powder and compressed into a pellet. The Cs-137 is in the form of CsCl in a glass fiber.
- 4. <u>Special Condition</u> Model NER-560-A sources must be installed in NIC-5 moisture density gauges being transported for disposal purposes only.
- 5. Quality Assurance Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the applicable requirements of Subpart H of 10 CFR 71.

¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

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6. <u>Expiration Date</u> - This certificate expires on July 31, 2012. On June 30, 2008, this certificate supersedes all previous revisions of USA/0161/S-96.

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the March 21, 2008 petition by Eckert & Ziegler Isotope Products, Valencia, CA, and in consideration of other information on file in this Office.

Certified By:

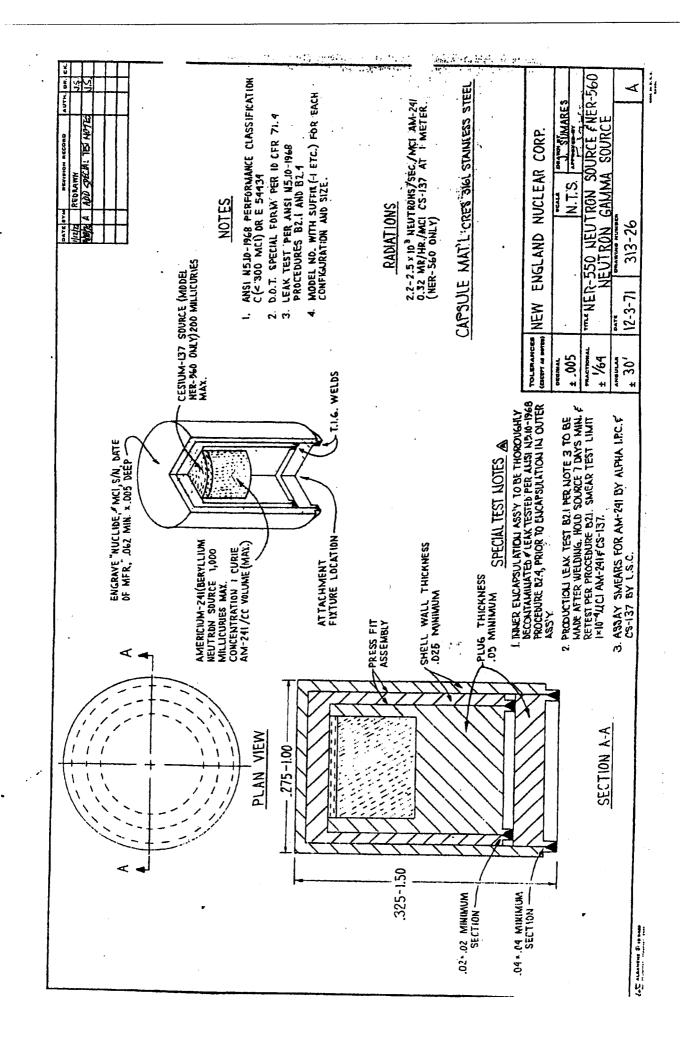
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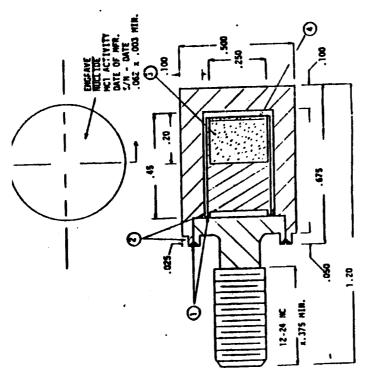
Deputy Associate Administrator for Hazardous Materials Safety

Revision 4 - Issued to add the Model NER-560-A.



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MODEL NER-560-A







Pipeline and Hazardous Materials Safety Administration

CERTIFICATE NUMBER: USA/0161/S-96, Revision 4

ORIGINAL REGISTRANT(S):

Ms. Frida Tan Regulatory Affairs manager Eckert & Ziegler Isotope Products 24937 Avenue Tibbitts Valencia, 91355 USA

REGISTERED USER(S):

Ms. Mary Shepherd Vice President J.L. Shepherd 1010 Arroyo Ave. San Fernando, 91340-1822 USA